

Year 10 GCSE Biology Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles. Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? You are learning about communicable disease and bioenergetics.</p> <p>Where have I seen this learning before? You have learnt about photosynthesis and plant structure at KS3 and plants at KS2.</p> <p>What could I use it for? You will use this knowledge in A-level Biology, BTEC Applied Science and if you pursue a BSc in Biology.</p>		<p>Literacy:</p> <ul style="list-style-type: none"> • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly
<p>In LP4.1, I will know:</p> <p>how to DEFINE non-communicable disease. how to give risk factors for disease. how to EXPLAIN what a causal mechanism is; how to EXPLAIN how smoking affects the risk of developing cardiovascular disease, lung disease and lung cancer.</p>	<p>04/03/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Cardiovascular</p>	<p>Homework</p> <p>Revision task for assessment.</p>
<p>In LP4.2, I will know:</p> <p>how to complete an assessment; how to review my assessment.</p>	<p>11/03/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Assessment</p>	<p>Homework</p> <p>Retrieval on non communicable disease.</p>
<p>In LP4.3, I will know:</p> <p>how to DESCRIBE how alcohol affects the liver, brain and unborn babies. what the definition of a carcinogen is. how to explain how many agents act as carcinogens; what a tumour is.</p> <p>Extended Task.</p>	<p>18/03/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Carcinogen</p>	<p>Homework</p> <p>Exam question on cancer.</p>
<p>In LP4.4, I will know:</p> <p>how to EXPLAIN that chloroplasts absorb energy to drive chemical reactions; how to DESCRIBE and EXPLAIN the effects of limiting factors on photosynthesis.</p>	<p>25/03/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Limiting factor</p>	<p>Homework</p> <p>Retrieval on photosynthesis.</p>
<p>In LP4.5, I will know:</p> <p>how to EVALUATE the benefits of manipulating the environment to increase food production; how to use distance to change light intensity and measure rate of photosynthesis; my strengths and areas for development for my learning so far.</p>	<p>15/04/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Photosynthesis</p>	<p>Homework</p> <p>Exam question on limiting factors.</p>
<p>In LP4.6, I will know:</p> <p>how to complete a required practical; how to EXPLAIN how substances pass in and out of cells.</p> <p>Extended Task.</p>	<p>22/04/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Diffusion</p>	<p>Homework</p> <p>Retrieval on required practical.</p>
<p>In LP4.7, I will know:</p> <p>how to EXPLAIN the relationship between transpiration and leaf structure; how to EXPLAIN how different factors affect transpiration; how to complete a variegated leaf practical and movement of sugar through the plant.</p>	<p>29/04/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Transpiration</p>	<p>Homework</p> <p>Retrieval on transpiration.</p>
<p>In LP4.8, I will know:</p> <p>how to EXPLAIN the importance of fertilisers; my strengths and areas for development for my learning so far.</p>	<p>06/05/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Fertilisers</p>	<p>Homework</p> <p>Exam question on fertilisers.</p>
<p>Resources to support learning: Knowledge organiser. Microsoft TEAMS. https://www.kayscience.com/d/photosynthesis-10</p>		
<p>FFET Award Challenge for this Learning Programme: LP4 Year 10 Science: Create a revision resource on a topic of your choice</p>		

PRT Task 1

PRT Task 2